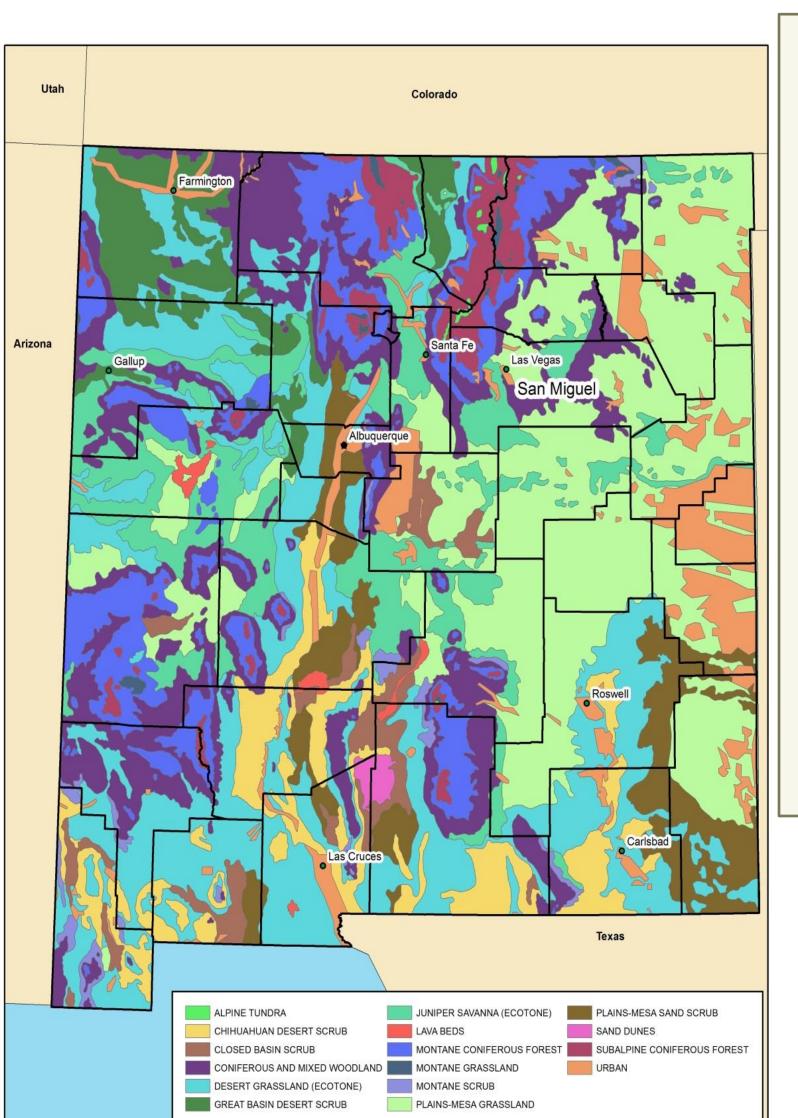
# Exotic Plants in Pecos National Historic Park

# Madeleine L. Pluss Summer 2014







#### Geography and Vegetation

Transition zone between the Rio Grande Valley, the Basin and Range province, and the Southwestern Plains.

Pecos River Valley

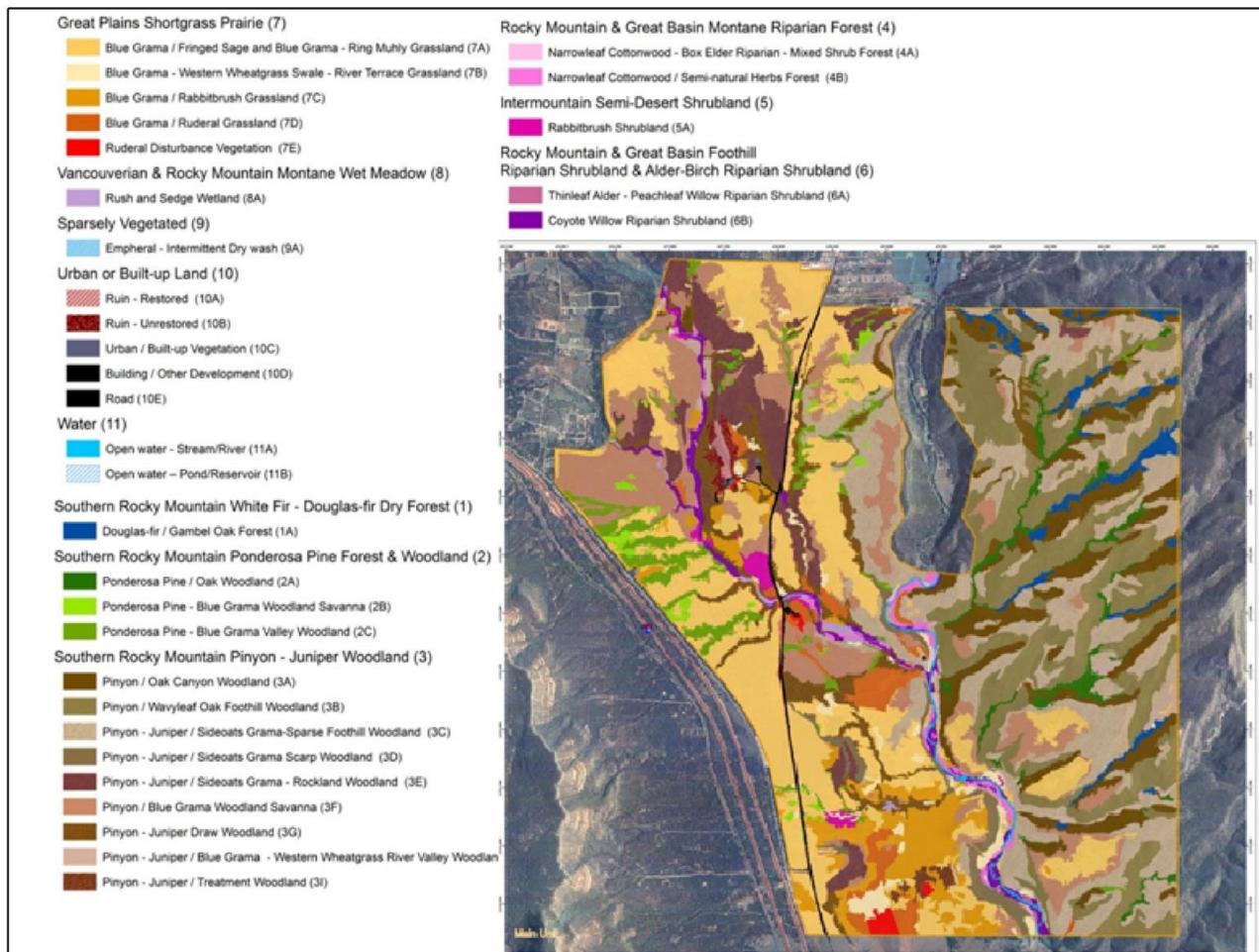
Sangre de Cristo Mountains in the North.

Tecolote Range to the **East** 

Glorieta Mesa/Apache Canyon area in West 354 species of vascular plants,

57 exotic species

41% of the Pecos Unit pinon-juniper-pine 26% purely pinon-juniper, 10% juniper grassland, 3% floodplain meadow, 1% is riparian deciduous forest (dominated by cottonwoods and willow), 15% is pasture, and 5% is developed



The landscape surrounding Pecos National Historic Park site is primarily subalpine and coniferous forest with predominant plains grasses in the West and mountainous Pinon/Juniper in the East.

Landscape of Pecos **National Historic Park** 



30,000-50,000 visitors/year

Over 6,000 Acres

National Monument in

Pueblo remains of **Pecos Natives** 

Mission Church from Franciscan Friars

Site for Coronado visitation and Spanish Inhabitation

## Methodology

Using the Trimble JunoSB, note the coordinates of various noxious plants

Using pre-programmed ArcPad data and a corresponding 150m grid map of Pecos

Observe the types of invasive plants within a 10m radius, density of coverage, and phenology of the plant.

The densities of plant coverage and management efforts were converted to a numerical evaluation for accessible readability when imported into

an ArcMap setting

### Findings and Conclusions

Highest concentration occurs by vehicle transport, water systems/riparian areas, trails, and livestock grazing fields.

Management efforts need to focus on removal before seeding or flowering take affect



